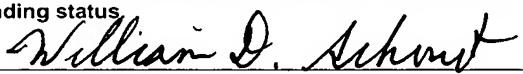


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|---|---|---|
| FORM PTO-1390 (Modified)<br>(REV. 12-2004) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  |   | ATTORNEY'S DOCKET NUMBER<br><b>UMICORE 0167-US</b>                  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>   |   | U.S. APPLICATION NO. (If known, see 37 CFR 1.5)<br><b>10/588943</b> |
| INTERNATIONAL APPLICATION NO.<br><b>PCT/EP2005/000450</b>   | INTERNATIONAL FILING DATE<br><b>18 JANUARY 2005</b> | PRIORITY DATE CLAIMED<br><b>11 FEBRUARY 2004</b>                    |
| TITLE OF INVENTION<br><b>EXHAUST GAS CLEANING CATALYST WITH AN AXIALLY VARYING PRECIOUS METAL CONCENTRATION AND PROCESSES FOR MAKING THE CATALYST</b>   |   |   |
| APPLICANT(S) FOR DO/EO/US<br><b>WOLF, Anke., LINDNER, Dieter., FEGER, Matthias., ROESCH, Martin., LOX, Egbert., and KREUZER, Thomas</b>   |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:   |   |   |
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).</li> <li>11. <input checked="" type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409).</li> <li>12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210).</li> </ol> |   |   |
| Items 13 to 23 below concern document(s) or information included:   |   |   |
| <ol style="list-style-type: none"> <li>13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>15. <input checked="" type="checkbox"/> A <b>FIRST</b> preliminary amendment.</li> <li>16. <input type="checkbox"/> A <b>SECOND</b> or <b>SUBSEQUENT</b> preliminary amendment.</li> <li>17. <input type="checkbox"/> A substitute specification.</li> <li>18. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13/ter.2 and 37 CFR 1.821 - 1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).</li> <li>22. <input checked="" type="checkbox"/> Express Mail Label No. <b>EV279578045US</b></li> <li>23. <input checked="" type="checkbox"/> Other items or information:</li> </ol>   |   |   |
| Copy of the PCT Request Form PCT/RO/101; PCT International Search Report Form PCT/ISA/210; Copy of the Written Opinion of the International Searching Authority Form PCT/ISA/237; Copy of amendment filed December 15, 2005 in EPO  |   |   |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|   |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
|---|--------------|--|------------|--|------------------|---|----------|---------------|------------|--|----------|----|----------|---|----------|----|----------|--------------------------------------|--|------------------|-----------|-------------------|
| U.S. APPLICATION NO (if known, see 37 CFR 1.5)<br><b>10/588943</b>  |              | INTERNATIONAL APPLICATION NO.<br><b>PCT/EP2005/000450</b>              |            | ATTORNEY'S DOCKET NUMBER<br><b>UMICORE 0167-US</b> |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| 24. The following fees are submitted: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;"><input checked="" type="checkbox"/> a) Basic national fee .....</td> <td style="width: 10%; text-align: right;">\$300.00</td> <td style="width: 30%; text-align: right;">Applicant use</td> <td style="width: 10%; text-align: right;">Office use</td> </tr> <tr> <td><input checked="" type="checkbox"/> b) Examination fee .....</td> <td style="text-align: right;">\$200.00</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">\$200.00</td> </tr> <tr> <td><input checked="" type="checkbox"/> c) Search fee .....</td> <td style="text-align: right;">\$500.00</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">\$500.00</td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td style="text-align: right;"><b>\$1000.00</b></td> <td style="text-align: right;"><b>\$</b></td> <td style="text-align: right;"><b>\$1,000.00</b></td> </tr> </table> |              |  |            |  |                  | <input checked="" type="checkbox"/> a) Basic national fee ..... | \$300.00 | Applicant use | Office use | <input checked="" type="checkbox"/> b) Examination fee ..... | \$200.00 | \$ | \$200.00 | <input checked="" type="checkbox"/> c) Search fee ..... | \$500.00 | \$ | \$500.00 | <b>TOTAL OF ABOVE CALCULATIONS =</b> |  | <b>\$1000.00</b> | <b>\$</b> | <b>\$1,000.00</b> |
| <input checked="" type="checkbox"/> a) Basic national fee .....   | \$300.00     | Applicant use  | Office use |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <input checked="" type="checkbox"/> b) Examination fee .....  | \$200.00     | \$   | \$200.00   |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <input checked="" type="checkbox"/> c) Search fee .....   | \$500.00     | \$   | \$500.00   |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              | <b>\$1000.00</b>   | <b>\$</b>  | <b>\$1,000.00</b>                                  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole) |            | RATE   |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| - 100 =   | /50 =        |  |            | x \$250.00   | \$ <b>\$0.00</b> |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA   | RATE       |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| Total claims  | 19           | - 20 = 0   | x \$50.00  | \$ <b>\$0.00</b>                                   |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| Independent claims  | 1            | - 3 = 0  | x \$200.00 | \$ <b>\$0.00</b>                                   |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| MULTIPLE DEPENDENT CLAIMS (if applicable)   |              |  | □ +        | \$360.00   | \$ <b>\$0.00</b> |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <b>TOTAL OF ABOVE CALCULATIONS =</b> <b>\$1,000.00</b>  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <b>SUBTOTAL =</b> <b>\$1,000.00</b>   |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <b>TOTAL NATIONAL FEE =</b> <b>\$1,000.00</b>   |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40</b> per property  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <b>TOTAL FEES ENCLOSED =</b> <b>\$1,000.00</b>  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| Amount to be refunded: <b>\$</b><br>Amount to be charged: <b>\$</b>   |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| a. <input checked="" type="checkbox"/> A check in the amount of <b>\$1,000.00</b> to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees. A duplicate copy of this sheet is _____.<br>c. <input checked="" type="checkbox"/> The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <b>11-0171</b> . A duplicate copy of this sheet is enclosed.<br>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| SEND ALL CORRESPONDENCE TO:   |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| William D. Schmidt, Esq.<br>Kalow & Springut LLP<br>488 Madison Avenue-19th Floor<br>New York, New York 10022<br>Tel: 212-813-1600  |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |
| <br>SIGNATURE<br>William D. Schmidt, Esq.<br>NAME<br><b>39,492</b><br>REGISTRATION NUMBER   |              |  |            |  |                  |   |          |               |            |  |          |    |          |   |          |    |          |                                      |  |                  |           |                   |